In the claims:

Following is a complete set of claims as amended with this Response.

1. (Previously Presented) A method, comprising:

receiving a persistence package at a running system from one of a plurality of different software components, the persistence package including persistent data and metadata, the software components having persistent data in different formats that are foreign to the running system;

extracting persistent data and metadata from the persistence package, the persistent data relating to diverse types of objects constructed at runtime of the software component and needed during more than one invocation of the software component, the metadata describing the persistent data, and comprising, at least in part, a description of the format of the persistent data;

establishing, based on the extracted metadata, a transform for a storage format and a storage location for the persistent data;

applying the transform to the persistent data to format the persistent data without using the software component from which the persistence package was received from the format of the software component into a storage format that is compatible with the receiving system and with a storage device of the running system independent of the software component; and

storing the persistent data in the storage device in the storage format.

- 2. (Previously Presented) The method of claim 1, further comprising using metadata passed from the persistence package to establish a storage location for the persistent data during the runtime of the system.
- 3. (Previously Presented) The method of claim 1, wherein the metadata comprises at least in part a description of a model structure of the persistent data.
- 4. (Previously Presented) The method of claim 3, wherein the metadata conforms to a metadata template comprising rules for describing the model structure.

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- 5. (Previously Presented) The method of claim 4, wherein extracting the persistent data and the metadata from the persistence package comprises using a filter.
 - 6. (Canceled)
- 7. (Previously Presented) The method of claim 1, further comprising retrieving persistent data from storage using a transform during the runtime of the receiving system.
- 8. (Previously Presented) The method of claim 1, further comprising receiving persistent data compatible with at least one of any type of processor, any type of programming language, any type of operating system, and any type of architecture.
 - 9. (Currently Amended) An apparatus, comprising: a data storage device;

a running receiving system coupled to the data storage device, the receiving system including a persistence engine to receive a persistence package from one of a plurality of different software components that are foreign to the running system, the persistence package including persistent data and metadata, the metadata comprising, at least in part, a description of the format of the persistent data, the data the software components having persistent data in different formats, wherein the persistence engine extracts persistent data and metadata from the persistence package, wherein the persistence engine uses the extracted metadata passed from the persistence package to establish, without using the software component from which the persistence package was received, a storage format and location to store the persistent data in the data storage device, and wherein the persistence engine applies the storage format to the persistent data to format the persistent data from the format of the software component into a storage format that is compatible with the receiving system and with the storage device independent of the software component, and to store the formatted system data in the data storage device.

10. (Previously Presented) The apparatus of claim 9, wherein the data storage device is external to a receiving system using the persistence engine.

- 11. (Previously Presented) The apparatus of claim 9, further comprising a storing interface to store the persistent data using the storage format.
- 12. (Previously Presented) The apparatus of claim 9, further comprising a retrieving interface to retrieve stored persistent data for use by one of the receiving system and the software component, the software component comprising an application.
- 13. (Previously Presented) The apparatus of claim 9, wherein the metadata comprises at least in part a description of the data model structure of the persistent data.
- 14. (Previously Presented) The apparatus of claim 13, further comprising a metadata template to format the metadata for readable reception by the persistence engine.
- 15. (Previously Presented) The apparatus of claim 9, wherein the persistence engine receives a persistence package comprising the metadata and the persistent data.
- 16. (Previously Presented) The apparatus of claim 9, wherein the persistence engine receives persistent data structured using any data model from a source comprising at least one of any type of processor, any type of operating system, any type of programming language, and any type of architecture.
- 17. (Previously Presented) The apparatus of claim 9, further comprising a metadata engine having a metadata reader and a metadata filter.
- 18. (Previously Presented) The apparatus of claim 17, wherein the metadata filter interprets the metadata.
- 19. (Previously Presented) The apparatus of claim 9, further comprising a transform engine having a set of transforms, a transform selector, and a transform generator.
- 20. (Previously Presented) The apparatus of claim 19, wherein a transform establishes at least one of the storage format and the storage location to store the persistent data in the data storage device.
- 21. (Previously Presented) The apparatus of claim 19, the transform selector further comprising a data model comparator.

- 22. (Previously Presented) The apparatus of claim 19, wherein the transform selector selects a transform based on filtered metadata.
- 23. (Previously Presented) The apparatus of claim 19, wherein the transform selector requests a transform from the transform generator based on filtered metadata.
- 24. (Previously Presented) The apparatus of claim 23, wherein the transform generator produces a transform that remodels the persistent data to approximate as closely as possible a preexisting transform from the set of transforms.
- 25. (Previously Presented) The apparatus of claim 23, wherein the transform generator produces a transform that substantially maintains the model structure of the persistent data received by the receiving system.
- 26. (Previously Presented) The apparatus of claim 23, wherein the transform generator produces a transform to remodel the persistent data to maximize efficient retrieval for an application.
- 27. (Previously Presented) The apparatus of claim 23, wherein the transform generator uses iterative read-write trials to produce a transform to remodel the persistent data to maximize storage and/or retrieval speed.
- 28. (Previously Presented) The apparatus of claim 23, wherein the transform generator produces a transform to remodel the persistent data to maximize data compression.
 - 29. (Previously Presented) An apparatus, comprising:

a communications interface;

a data model description receiver to receive a data model description from one of a plurality of different software components that are foreign to the apparatus, the software components having persistent data in accordance with different data models, the data model descriptions describing, at least in part a format of data associated with the models;

a set of transforms;

a data model comparator to produce a comparison independent of the software component from which the data model description is received between the data model description and a data model in a transform in the set of transforms;

a transform generator having an assembler to produce a transform based on the data model description and the comparison independent of the software component from which the data model description was received, the transform establishing a storage format and a storage location for data associated with the model;

a storage device;

a transform engine to apply a transform to format persistent data for storage from the format of the software component into a storage format that is compatible with the storage device independent of the software component; and

a storing interface to store the formatted persistent data in the storage device.

- 30. (Previously Presented) The apparatus of claim 29, wherein the transform generator further comprises a data model variance calculator coupled to the assembler.
- 31. (Previously Presented) The apparatus of claim 29, wherein the transform generator further comprises a data model approximator coupled to the assembler.
- 32. (Previously Presented) The apparatus of claim 29, wherein the transform generator further comprises an efficient storage/retrieval speed maximizer coupled to the assembler.
- 33. (Previously Presented) The apparatus of claim 32, wherein the storage/retrieval speed maximizer further comprises a read/write iterator.
- 34. (Previously Presented) The apparatus of claim 29, wherein the transform generator further comprises a data compression maximizer coupled to the assembler.
- 35. (Previously Presented) The apparatus of claim 29, wherein the transform generator further comprises an indexing estimator coupled to the assembler.

Attorney Docket No. 42P10728 Application No. 10/004,196 36. (Previously Presented) A method, comprising:

receiving a data model description at a running system from one of a plurality of different software components that are foreign to the running system, the software components having persistent data in accordance with different data models, the persistent data relating to diverse types of objects, the data model description describing the persistent data, and comprising, at least in part, a description of the format of the persistent data;

comparing the data model description to a preexisting data model independent of the software component from which the data model description is received;

assembling a transform at the running system independent of the software component from which the data model description is received based on the data model description and the comparison to establish a storage format for persistent data during runtime of a system;

applying a transform to format persistent data for storage from the format of the software component into a storage format that is compatible with a storage device independent of the software component; and

storing the formatted persistent data at the storage device.

- 37. (Previously Presented) The method of claim 36, wherein the assembling a transform includes measuring a variance between the data model description and a preexisting data model.
- 38. (Previously Presented) The method of claim 36, wherein the assembling a transform includes approximating a preexisting data model.
- 39. (Previously Presented) The method of claim 36, wherein the assembling a transform includes maximizing data storage speed and/or data retrieval speed.
- 40. (Previously Presented) The method of claim 39, wherein the maximizing speed includes iteratively performing data read/write trials and selecting the fastest trial.
- 41. (Previously Presented) The method of claim 36, wherein the assembling a transform includes maximizing data compression.

- 42. (Previously Presented) The method of claim 36, wherein the assembling a transform includes optimizing efficient indexing for the persistent data.
 - 43. (Previously Presented) An article of manufacture, comprising:

a machine-readable medium comprising instructions, that when executed cause a machine to:

receive persistent data having a model structure from one of a plurality of different software components that are foreign to the machine and the machine-readable medium, the software components having persistent data in different model structures, the persistent data relating to diverse types of objects;

receive metadata comprising at least in part a description of the model structure, the metadata describing the persistent data and comprising, at least in part, a description of the format of the persistent data; and

establish, using the metadata and without using the software component from which the persistence package was received, a storage format and a storage location for the persistent data; and

apply the established storage format to the persistent data to format the persistent data for storage from the format of the software component into a storage format that is compatible with the machine and with a storage device independent of the software component.

- 44. (Previously Presented) The article of manufacture of claim 43, further comprising instructions, that when executed, cause a machine to store the persistent data using the storage format.
- 45. (Previously Presented) The article of manufacture of claim 43, further comprising instructions, that when executed, cause a machine to receive metadata conforming to a metadata template comprising rules for describing a data model structure of the persistent data.
- 46. (Previously Presented) The article of manufacture of claim 45, further comprising instructions, that when executed, cause a machine to receive a persistence package comprising the persistent data and the metadata and to extract the persistent data and the metadata from the persistence package.

Attorney Docket No. 42P10728 Application No. 10/004,196 47. (Previously Presented) The article of manufacture of claim 43, further comprising instructions, that when executed, cause a machine to retrieve the persistent data using the storage format.

48. (Previously Presented) The article of manufacture of claim 43, further comprising instructions, that when executed, cause a machine to select and/or create, based on the metadata, a transform to establish at least one of the storage format and the storage location.

49. (Previously Presented) The article of manufacture of claim 43, further comprising instructions, that when executed, cause a machine to receive persistent data compatible with one of any type of processor, any type of programming language, any type of operating system, and any type of architecture.